

WHAT IS CLAIMED IS:

1. A turbocharger (1) including the following:

a turbine wheel (27) supplied with exhaust gas from an internal combustion engine via at least one supply channel (9), wherein the amount of supplied exhaust gas is controllable via a gas control device (4, 7, 11, 29), which is associated with an actuating device (11) for producing a control movement to be transmitted to the gas control device (4, 7, 11, 29), as well as a transmission device (4, 5, 14-16) for transmitting the control movement of the actuating device (11) to the gas control device (4, 7, 11, 29);

thereby characterized, that

the transmission device (4, 5, 14-16) includes an adjusting device (15, 19; V), via which the control movement is adjustable.

2. Turbocharger (1) according to claim 1, thereby characterized, that it includes at least one of the following characteristics:

a) the adjusting device (15, 19; V) is a length adjusting device for adjusting the effective length of at least one element (14) of the transmission device (4, 5, 14-16);

b) the adjusting device (15, 19; V) includes a manually operated and fixable adjusting element (19; V).

3. Turbocharger (1) according to claim 1 or 2, thereby characterized, that the transmission device (4, 5, 14-16) includes an abutment element (14) which is moveable along a longitudinal axis (a), against which the adjustment device (15, 19; V) engages.

4. Turbocharger (1) according to claim 3, thereby characterized, that it includes at least one of the following features:

a) gas control device (4, 7, 11, 29) includes a guide array (7) of variable turbine geometry and is connected with this guide array (7) via at least one adjusting lever (4), and this adjusting lever (4) is adjustable by the actuating element (11) via the abutment element (14);

b) the actuating element (11) includes a control housing (12) extending along an axis (A) with an actuating element incorporated therein (13), and the abutment element extends out of the control housing (11) approximately along the from this axis (A), preferably from the actuating element (11) on its end to a adjustment device (4) of the gas control device (7, 29) on the other end;

c) the actuating element (11) includes an actuating membrane operable via a positive or negative pressure.

5. Turbocharger (1) according to claim 3 or 4, thereby characterized, that the abutment element (14) is comprised of a first part on the actuating element side and a second part lying along the gas control device (4, 7, 11, 29), of which the one part (15 or 16) receives the other part (16 or 15) in a hollow space (18) adjustably and fixable via a fixing device (19).

6. Turbocharger (1) according to claim 5, thereby characterized that

a) the fixing device (19) includes at least one internal threading (19) of the other part (16) for receiving the external threading of the one part (15), via which the adjustment occurs,

a¹) which internal threading (19) is preferably a threaded nut mounted rotatable on the associated abutment piece (16)

a²) which in particular are rotatably mounted in the hollow space (18) of the one abutment piece (16) and in their axial position are axially located by at least one

wall segment (21a, 21b) extending perpendicular to the longitudinal axis (a) of the abutment piece (16),

a³) which preferably is formed by at least one wall recess (20a, 20b) in the hollow space (18) of the one abutment piece (16),

a⁴) wherein the wall recess (20a, 20b) in certain cases for forming an opening has a through-hole whereby a part of the circumference of the threaded nut (19) projects outwards for adjustment.

7. Turbocharger (1) according to one of claims 3 to 6, thereby characterized that the abutment element (16) is comprised of at least two circumference parts (16a, 16b) extending about its longitudinal axis (a), which are rigidly connected with each other to form an essentially closed hollow space (18).

8. Turbocharger (1) according to claim 7, thereby characterized that it includes at least one of the following characteristics:

a) the at least two circumferenced parts (16a, 16b) extending around a longitudinal axis (a) are press or punch parts;

b) the at least two circumferenced parts (16a, 16b) extending around a longitudinal axis (a) together form a cylindrical shape;

c) the at least two circumferenced parts (16a, 16b) are connected with each other by a material connection (26) free of connecting parts and are preferably welded to each other.

9. Turbocharger (1) according to claim 7 or 8 thereby characterized in that the hollow space (18) faces the actuating element (11) against which the actuating device (11) opposing end of the abutment element (16) is connected with an adjustment element (4) of the gas control device (4, 7, 11, 29).

10. Turbocharger (1) according to claim 9 thereby characterized that the at least two circumferenced parts (16a, 16b) extending about the longitudinal axis (a) in the connection to the hollow space (18) include an at least partially flat surface lying against connecting segment (22a,22b), wherein preferably the connecting segment (22a,22b) includes an opening (23) bordered by a ball-shaped wall segment (24) for bearing a bearing body such as an arc shaped body (17a) with a thereto rigidly connected pivot pin (17b) for transmission of the movement of the abutment element (16) upon a control element (4) of the gas control device (4, 7, 11, 29)
and/or
the connecting segment (22a,22b) continues with a seam (25) on the side of the hollow space (18).